07

MONTHLY BULLETIN

OF

THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, SYRIA

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

DECEMBER, 1937

J. A. BROWN, DIRECTOR

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DECEMBER 1937
METEOROLOGICAL REGISTER

Date	Barometer reduced to oC Sea level and 45 Latitude 700 mm. + ...				Thermometer Cent.					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	61.2	60.0	61.5	60.9	18.4	12.9	15.8	15.7	15.1	15.5
2	4.5	4.4	5.6	4.8	17.4	13.1	14.4	14.9	14.1	14.5
3	7.6	7.2	7.4	7.4	17.6	13.5	15.9	17.3	14.9	16.0
4	8.3	6.5	6.4	7.1	18.8	14.3	16.6	18.6	16.2	17.1
5	5.6	3.6	3.0	4.1	19.3	15.7	17.1	18.3	16.3	17.2
6	63.3	63.4	65.6	64.1	20.8	13.1	18.6	19.9	16.7	18.4
7	6.5	6.5	7.4	6.8	19.8	14.0	16.6	19.2	16.3	17.4
8	9.1	7.9	7.7	8.2	19.0	14.3	16.1	18.8	16.3	17.1
9	7.1	5.3	5.5	6.6	19.0	13.8	16.4	17.8	16.8	17.0
10	5.3	4.3	5.5	5.0	19.0	14.6	15.9	17.4	15.9	16.4
11	66.4	65.5	65.5	65.8	19.4	14.4	16.8	19.1	16.2	17.4
12	5.1	3.1	3.2	3.8	19.3	15.1	17.1	18.7	16.5	17.4
13	3.8	3.1	3.1	3.3	19.4	15.0	17.4	18.7	16.8	17.6
14	5.5	4.2	5.0	4.9	19.2	15.3	16.8	19.2	16.3	17.4
15	5.4	5.2	5.6	5.4	20.9	16.2	18.1	19.2	16.9	18.1
16	65.0	64.9	64.6	64.8	20.6	14.7	18.0	19.1	17.7	18.3
17	4.1	2.7	2.8	3.2	20.6	16.8	17.5	19.8	20.3	19.2
18	4.2	2.5	2.3	3.0	21.1	17.6	19.9	20.2	18.7	19.6
19	3.0	3.0	2.8	2.9	26.4	19.8	20.8	21.2	24.0	22.0
20	0.2	1.1	2.8	1.4	24.8	15.0	22.1	20.4	18.4	20.3
21	65.0	64.5	65.3	64.9	18.9	14.7	16.7	18.3	16.0	17.0
22	3.9	1.4	1.8	2.4	18.9	14.4	16.5	17.8	16.8	17.0
23	1.5	1.7	2.0	1.7	17.5	13.9	14.5	16.7	15.8	15.7
24	2.1	1.7	2.8	2.2	19.9	10.8	13.8	18.7	16.1	16.2
25	1.8	0.3	1.3	1.1	13.9	11.7	11.6	13.3	13.8	12.9
26	61.4	61.8	62.9	62.0	14.4	12.8	11.9	13.8	13.8	13.2
27	2.8	3.9	5.6	4.1	16.4	11.8	13.2	14.8	13.2	13.7
28	6.7	6.3	6.4	6.5	16.5	12.9	14.6	15.9	13.8	14.8
29	6.1	3.6	4.8	4.8	17.6	12.8	15.3	17.3	15.3	16.0
30	3.3	0.5	0.8	1.5	18.0	14.6	14.9	16.6	16.4	16.0
31	1.8	1.1	1.9	1.6	18.7	12.0	15.3	15.9	14.6	15.3
	764.44	763.91	764.16	764.07	19.08	14.57	16.33	17.82	16.32	16.76

Barometer, range for month 760.0 mm.–769.1 mm.
,, 50-yr. average for month 760.257 mm.
Thermometer, range for month 10.8° C.–26.4° C.
,, 50-yr. average for month 15.90° C.
Rain, total for month 122.811 mm.
,, , 50-yr. average for month 190.75 mm.
,, , total, Sept. 1st to end of month 505.297 mm.
,, 50-yr. average, Sept. 1st to end of month 385.83 mm.

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Date	Wet Bulb Cent.			Elasticity of Vapor mm.				Relative Moisture per cent.				Sun. hrs.	Rain mm.
	8:30	14:30	20:30	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean		
1	15.1	14.1	14.1	12.3	10.9	11.3	11.5	93	82	89	88	1.1	22.225
2	12.7	13.6	12.9	9.9	10.7	10.4	10.3	80	84	87	84	2.7	13.716
3	12.7	13.9	12.6	9.2	9.8	9.4	9.5	69	67	74	70	9.3	1.651
4	12.5	14.9	12.5	8.6	10.3	8.8	9.3	61	65	65	64	8.2	
5	12.3	13.7	12.5	8.2	9.0	8.9	8.7	57	57	63	59	7.9	
6	12.9	15.9	12.6	9.2	11.1	8.6	9.6	57	64	60	60	4.5	
7	14.3	15.6	13.7	10.8	11.0	10.1	10.6	77	67	74	73	6.6	5.461
8	13.2	15.8	13.7	9.6	11.5	10.1	10.4	71	72	74	72	9.1	
9	13.3	14.8	12.8	9.6	10.8	8.7	9.7	69	71	61	67	9.3	
10	13.1	14.3	12.9	9.6	10.2	9.3	9.7	71	70	70	70	9.3	
11	13.2	15.7	13.4	14.3	11.1	9.8	11.7	65	67	72	68	9.3	
12	11.9	16.0	13.2	7.8	11.8	9.4	9.7	54	73	67	65	9.3	
13	12.5	15.3	13.4	8.2	10.8	9.5	9.5	56	68	67	64	9.3	
14	12.9	15.2	13.7	8.9	10.4	10.1	9.8	63	63	74	67	9.0	
15	12.7	15.4	14.5	8.1	10.7	10.8	9.9	52	65	76	64	7.0	
16	14.5	16.1	15.1	10.3	11.6	11.0	11.0	66	71	73	70	5.4	
17	13.1	17.6	12.3	8.8	13.3	7.0	9.7	59	78	40	59	9.3	
18	14.2	18.1	13.2	8.9	13.9	8.0	10.3	51	79	46	59	9.0	
19	13.9	18.3	13.7	8.4	14.5	6.3	9.7	46	78	28	51	8.1	
20	15.4	18.4	14.3	9.4	14.2	9.7	11.1	48	80	61	63	6.9	
21	14.7	14.8	12.8	11.1	10.4	9.2	10.2	78	66	69	71	6.6	1.397
22	13.4	15.2	14.3	9.6	11.3	10.6	10.5	69	74	75	73	8.7	
23	14.1	16.6	14.7	11.6	13.9	11.7	12.4	94	98	88	93	1.3	28.450
24	11.1	14.9	14.1	8.3	10.4	10.7	9.8	70	66	79	72	2.7	
25	11.3	11.6	10.5	9.7	9.3	7.7	8.9	94	81	66	80	0.0	13.462
26	10.0	12.2	11.6	8.1	9.5	8.9	8.8	78	81	75	78	2.3	7.112
27	10.9	12.3	11.3	8.5	9.2	9.0	8.9	75	73	79	76	3.1	13.208
28	10.6	12.6	11.4	7.5	9.0	8.7	8.4	61	67	73	67	9.3	
29	10.3	14.9	9.8	7.4	11.1	6.5	8.3	57	76	50	61	9.3	
30	10.9	12.5	11.3	7.7	8.5	7.4	7.9	61	61	53	58	2.7	
31	13.3	14.6	13.9	10.1	11.5	11.4	11.0	78	86	92	85	3.4	16.129
				9.67	11.02	9.32	9.90	67.1	72.6	68.4	69.4	6.43	3.96

Height of Barometer above sea level: 33.7 meters.
„ „ Thermometers above ground:
Dry and wet 1.55 m.; Max. 1.75 m.: Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

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	Clouds Clear—0 Overcast—10				Direction and force of wind Beaufort scale			Wind per day	Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Kms.		
1	10ni	10cu	10ni	10.0	3s	2s	2s	267.6	rough	
2	10ni	10ni	0	6.7	2s	2s	2s	122.4	„	
3	2cu	3cu	1cu	2.0	1se	1w	2se	111.1	slight	first snow on mt.
4	3stcu	5ci	0	2.7	2se	1w	2sw	151.4	„	
5	10ci	10ci	4ci	8.0	2se	2ne	1n	148.4	„	
6	10ci	8ci	0	6.0	2s	3s	3s	256.1	„	
7	10cicu	6cu	0	5.3	1se	2se	1e	100.1	mod.	
8	0	4cu	0	1.3	1se	1nw	2n	162.6	rough	mist on sea a.m.
9	0	0	0	0.0	1se	3n	2n	197.6	mod.	
10	0	0	0	0.0	1se	2n	2n	153.0	slight	
11	0	0	0	0.0	0se	0n	1n	82.1	„	„ „ „ „
12	0	0	0	0.0	1se	1w	1sw	123.0	calm	„ „ „ „
13	0	7ci	0	2.3	1se	1n	2n	146.6	„	„ „ „ „
14	3ci	2ci	10ci	5.0	2se	1nw	2se	130.5	„	„ „ „ „
15	9ci	10ci	10ci	9.7	1se	1se	2ne	127.8	„	„ „ „ „
16	10cicu	0	0	3.3	2e	1ne	2n	150.1	mod.	„ „ „ „
17	0	9cist	0	3.0	1se	1nw	2n	120.4	slight	heavy dew
18	3ci	9ci	10ci	7.3	2s	1n	2n	119.0	mod.	lunar halo
19	4cicu	6cu	10cu	6.7	2s	2se	3e	244.7	„	„ „
20	4cu	10nicu	9cu	7.7	3s	3sw	3n	334.2	rough	
21	7cu	5cu	5cu	5.7	2sw	2s	0s	113.5	mod.	
22	3cu	4cu	6cu	4.3	0se	2ne	2s	156.0	„	mist on sea a.m.
23	10ni	10ni	9cu	9.7	1s	2w	2s	192.0	rough	„ „ „ „
24	7cu	10cu	10cu	9.0	1s	2w	1s	135.3	„	„ „ „ „
25	10cu	10cu	10cu	10.0	1se	1n	1s	141.0	„	„ „ „ „
26	4cu	10cu	5cu	6.3	1sw	1se	2w	84.4	„	„ „ „ „
27	6cu	7cu	0	4.3	1se	1n	1n	83.3	slight	
28	1cu	2cu	0	1.0	2se	1nw	2sw	123.0	calm	lightning at night
29	0	0	0	0.0	1se	1nw	1n	85.6	„	
30	10cicu	10ci	10ci	10.0	1e	1sw	2se	154.7	slight	
31	10ni	10ni	10ni	10.0	3s	2s	0s	147.5	rough	
				5.07	1.5	1.5	1.7	150.48		

NUMBER OF DAILY WIND OBSERVATIONS

Time	N	NE	E	SE	S	SW	W	NW	Calm	Total
8:30	0	0	2	16	9	2	0	0	2	31
14:30	6	3	0	4	5	2	5	5	1	31
20:30	12	1	2	3	9	3	1	0	2	31
Totals	18	4	4	23	21	7	6	5	5	93

Number of days with rain 10, fog 0, thunderstorm 0, gales 0.

50 yr. average number of days with rain during month 13.4